**Raising a Fraction to a Power**

**Example:**  To do this, we raise the numerator to the third power and we raise the denominator to the third power. This gives us .

First, we simplify the numerator and the denominator and get  by raising each base to the third power. Then, we have to simplify the resulting fraction:







When we combine everything we get: 

**When raising a fraction to a power, raise the numerator to the power, raise the denominator to the power, and simplify the resulting fraction.**